



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Raymond J. Dattwyler, Gerald Seinost, Daniel Dykhuizen, Benjamin J. Luft and Maria J.C. Gomes-Solecki

Application No.: 09/596,746                      Group: 1645  
Filed: June 19, 2000                      Examiner: R.P. Swartz  
Confirmation No.: 3998

For: GROUPS OF *BORRELIA BURGDORFERI* AND *BORRELIA AFZELII* THAT CAUSE LYME DISEASE IN HUMANS

CERTIFICATE OF MAILING OR TRANSMISSION	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or is being facsimile transmitted to the United States Patent and Trademark Office on:	
<u>9/22/05</u> Date	<u>Katie Norris</u> Signature
<u>Katie Norris</u> Typed or printed name of person signing certificate	

Mail Stop AF  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Transmitted herewith is a Transmittal of Substitute Sequence Listing and Amendment for filing in the above-identified application.

- [ ] Small entity status of this application under 37 C.F.R. 1.9 and 1.27 has been established by a Small Entity Statement previously submitted.
- [ ] A Small Entity Statement to establish small entity status under 37 C.F.R. 1.9 and 1.27 is enclosed.

**The claims fee has been calculated as shown below:**

	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NO. PREVIOUSLY PAID FOR	PRESENT EXTRA
TOTAL	19	MINUS *	48	0
INDEP	4	MINUS **	9	0
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEP. CLAIM				

\* not fewer than 20

\*\* not fewer than 3

## SMALL ENTITY

	RATE	ADDIT. FEE
X	\$ 25	\$ 0
X	\$ 100	\$ 0
+	\$ 180	\$ 0

TOTAL= \$ 0OTHER THAN  
SMALL ENTITY

	RATE	ADDIT. FEE
X	\$ 50	\$ 0
X	\$ 200	\$ 0
+	\$ 360	\$ 0

TOTAL= \$ 0**The Application Size Fee has been calculated as shown below:***(Effective for cases filed on or after December 8, 2004)*

Actual Sheets (Including current amendment)	Highest No. of Sheets Paid For (At least 100)	No. of Additional Units Required (Increments of 50 sheets)

## SMALL ENTITY

Rate	Total Amount Owed
X \$125	\$[ ]

OTHER THAN  
SMALL ENTITY

Rate	Total Amount Owed
X \$250	\$[ ]

Payment  
Sufficient for  
up to

[ ] Sheets

**Petition for Extension of Time**

[ ] Applicant hereby petitions to extend the time to respond to the [ ] dated [ ] for [ ] month(s) from [ ] to [ ]. The appropriate fee is set forth below.

[ ] [For action-specific language in an extension of time, go to insert, file, public folders, firm templates, and select the appropriate paragraph.]

**Please charge Deposit Account No. 08-0380 for the following fees:**

<input type="checkbox"/>	Petition for [            ] month Extension of Time	\$ _____
<input type="checkbox"/>	Claims Fee	\$ _____
<input type="checkbox"/>	Application Size Fee	\$ _____
<input type="checkbox"/>	Other Fees:	
	_____	\$ _____
	_____	\$ _____
	TOTAL:	\$ <u>0</u>

**A check is enclosed in payment of the following fees:**

<input type="checkbox"/>	Petition for [            ] month Extension of Time	\$ _____
<input type="checkbox"/>	Claims Fee	\$ _____
<input type="checkbox"/>	Application Size Fee	\$ _____
<input type="checkbox"/>	Other Fees:	
	_____	\$ _____
	_____	\$ _____
	TOTAL:	\$ <u>0</u>

☒ Please charge any deficiency or credit any overpayment in the fees that may be due in this matter to Deposit Account No. 08-0380. A copy of this letter is enclosed for accounting purposes.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By Doreen M. Hogle Reg. No. 36,361 for  
 Elizabeth W. Mata  
 Registration No.: 38,236  
 Telephone (978) 341-0036  
 Facsimile (978) 341-0136

Concord, Massachusetts 01742-9133

Dated: September 23, 2005